



Western Washington University
Western CEDAR

Salish Sea Ecosystem Conference

2014 Salish Sea Ecosystem Conference
(Seattle, Wash.)

May 1st, 8:30 AM - 10:00 AM

British Columbia's approach for managing sea level rise

Thomas White

British Columbia. Ministry of Environment, thomas.white@gov.bc.ca

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White, Thomas, "British Columbia's approach for managing sea level rise" (2014). *Salish Sea Ecosystem Conference*. 91.

<https://cedar.wvu.edu/ssec/2014ssec/Day2/91>

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CALP Flanders (UBC CALP), 2011

COMMUNICATING CLIMATE CHANGE RISKS AND RESPONSES

Through Community Visioning Processes

David Flanders, RPP, CSLA

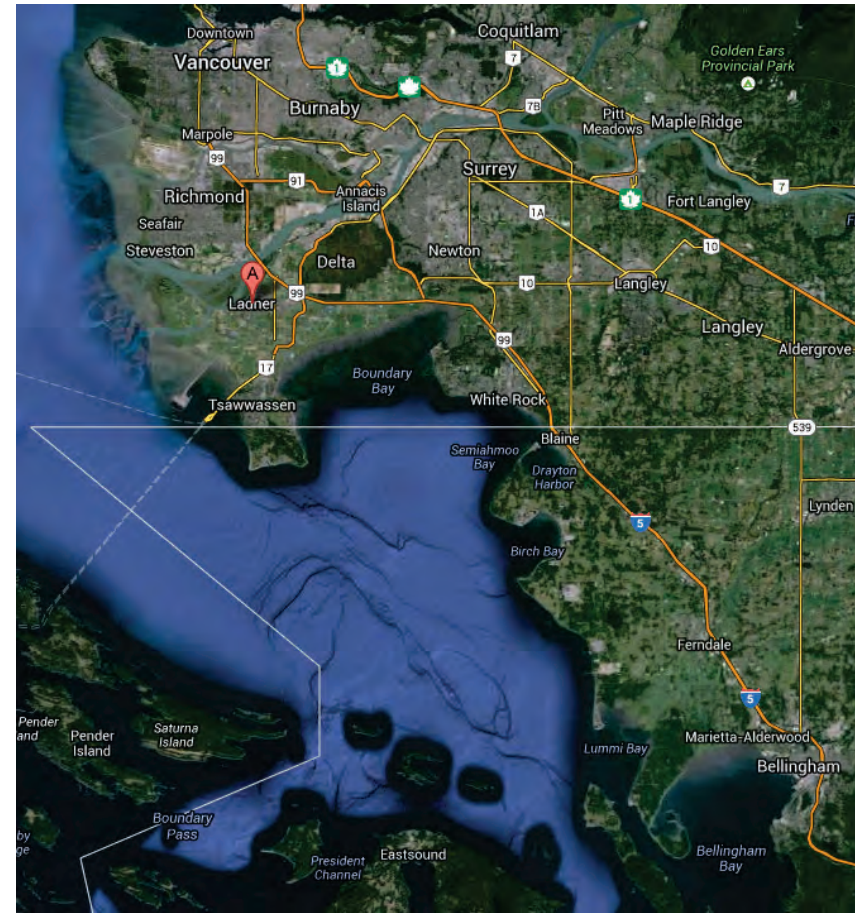
Thomas White (presenter)



2014 Salish Sea Ecosystem Conference
May 2014

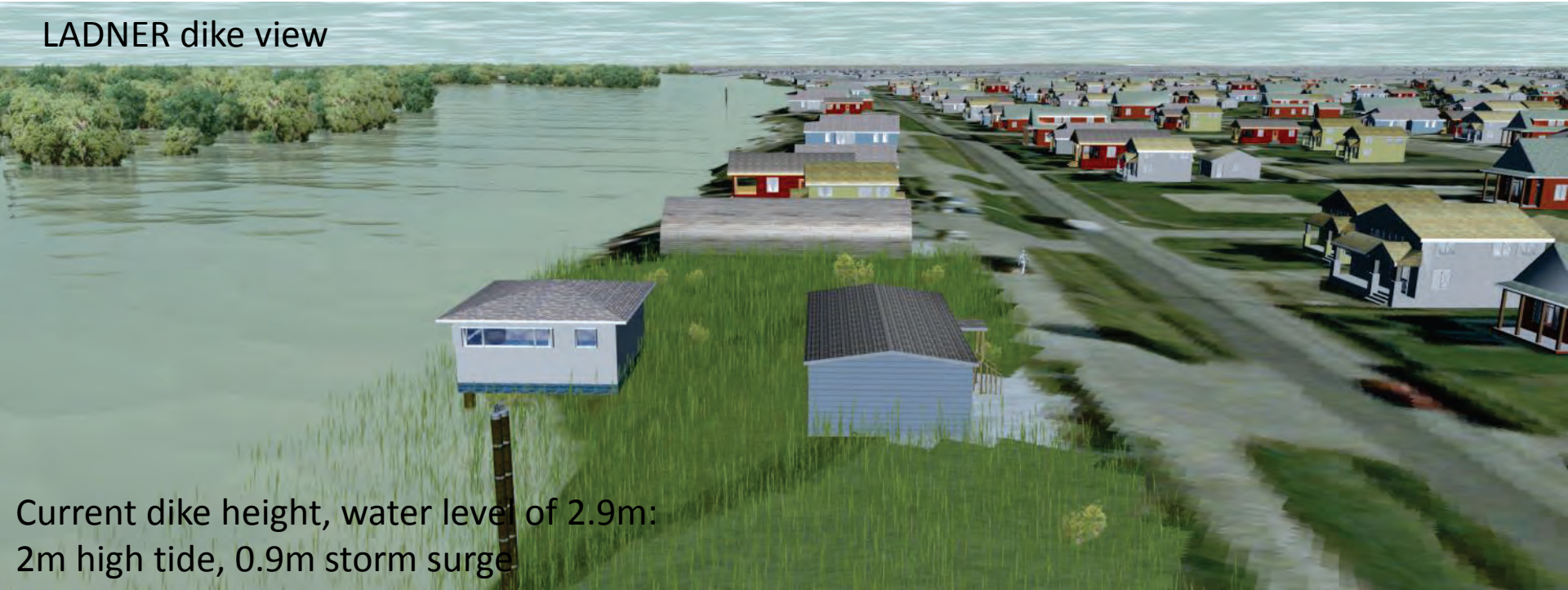


Helping citizens and communities envision adaptation to rising seas

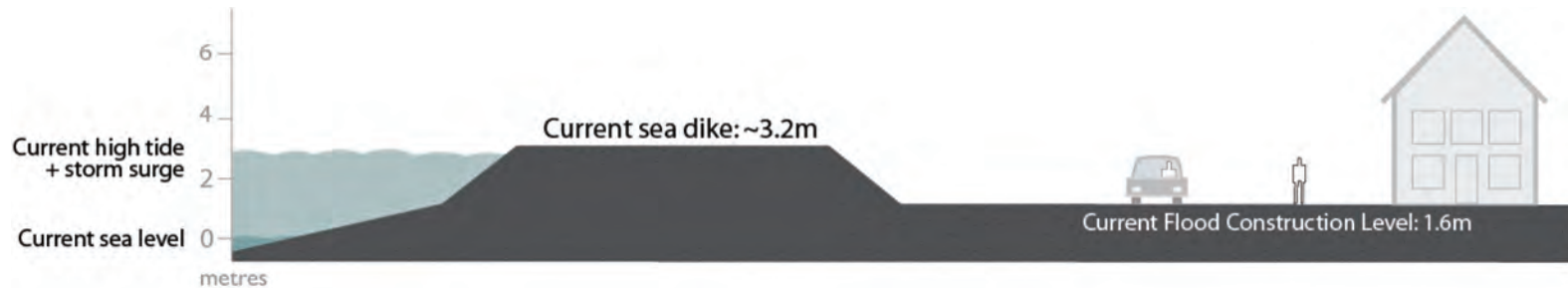


Climate change impacts

LADNER dike view

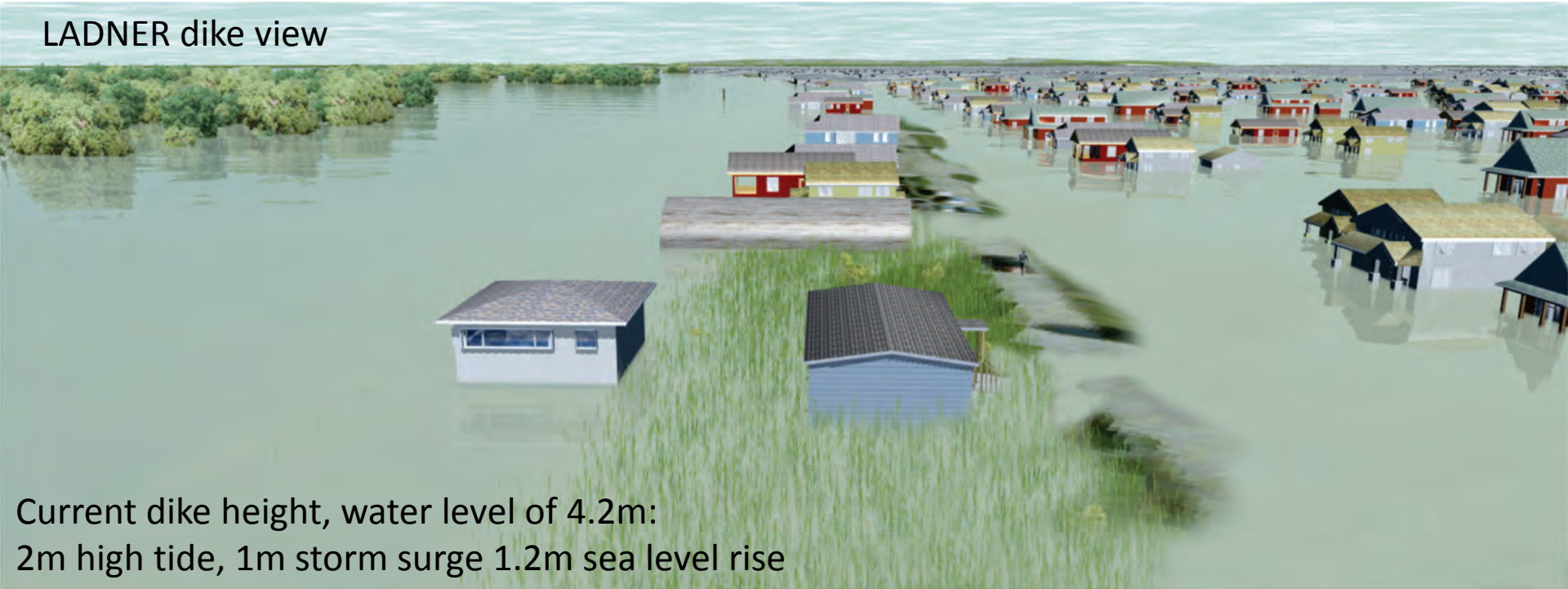


Current dike height, water level of 2.9m:
2m high tide, 0.9m storm surge

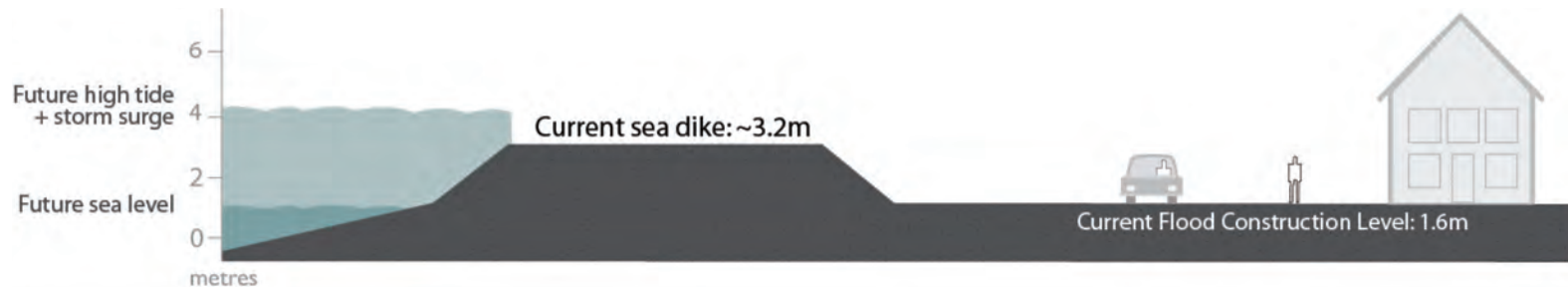


Climate change impacts

LADNER dike view



Current dike height, water level of 4.2m:
2m high tide, 1m storm surge 1.2m sea level rise



How to Adapt? Four Scenarios:

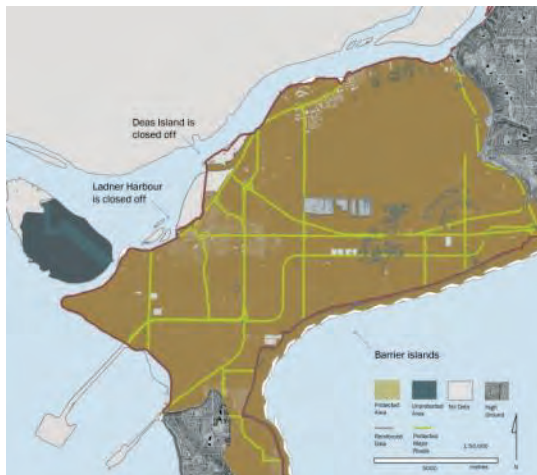
Hold the Line



Managed Retreat



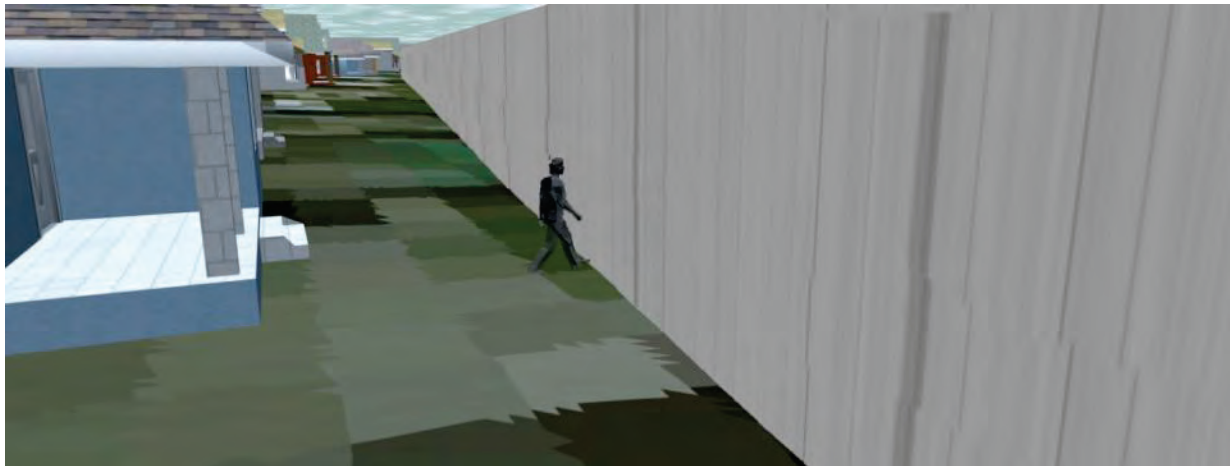
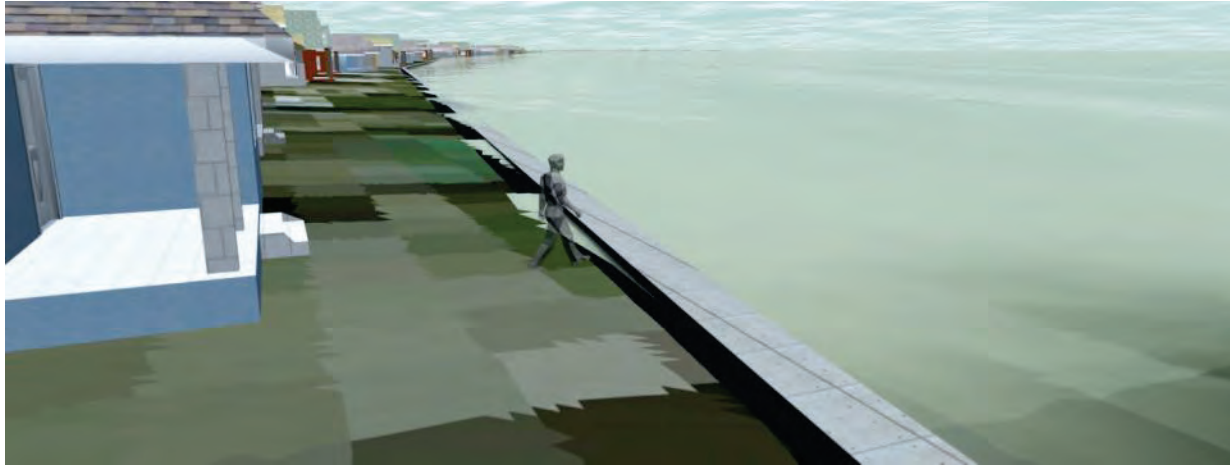
Reinforce and Reclaim



Build Up



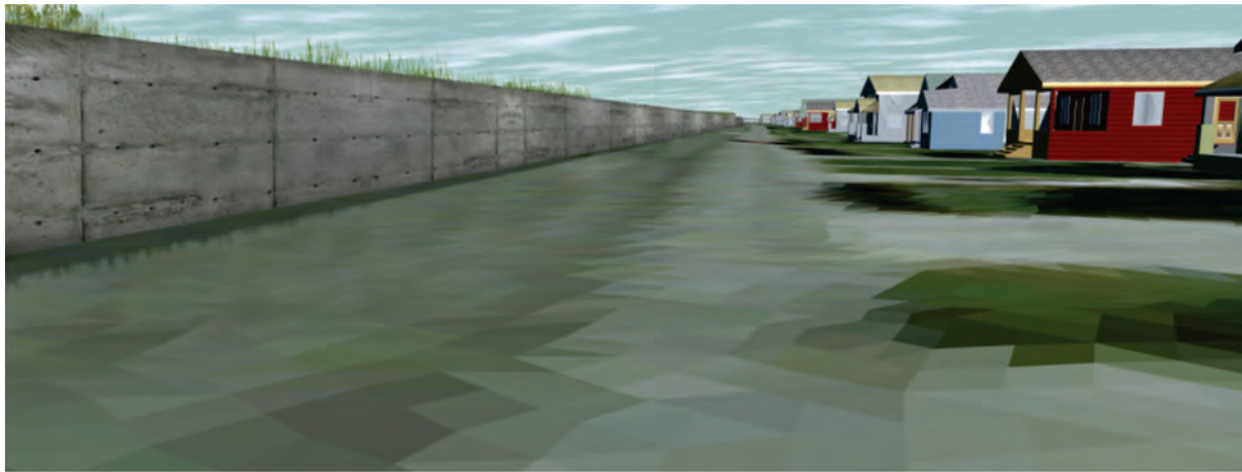
Hold the Line



1.2 m Sea Level Rise, Year ~2100



Hold the Line

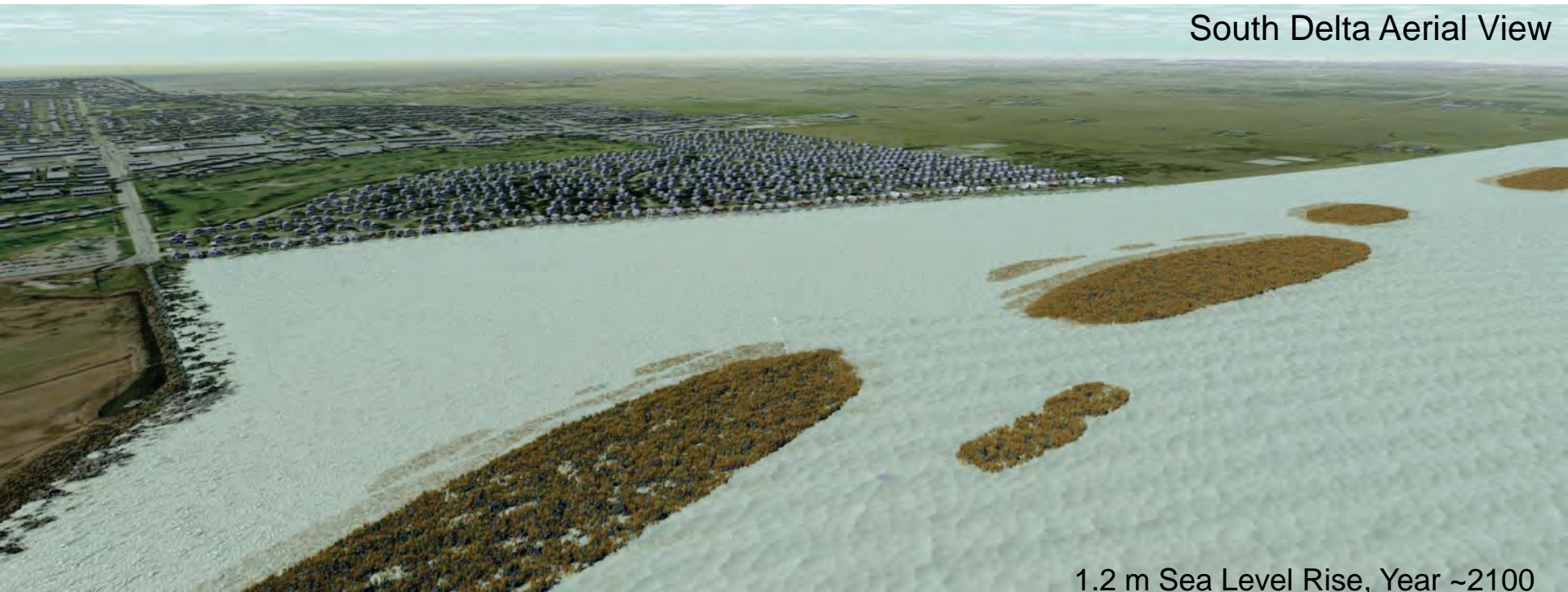


1.2 m Sea Level Rise, Year ~2100

Hold the Line – Reinforce and Reclaim



South Delta Aerial View

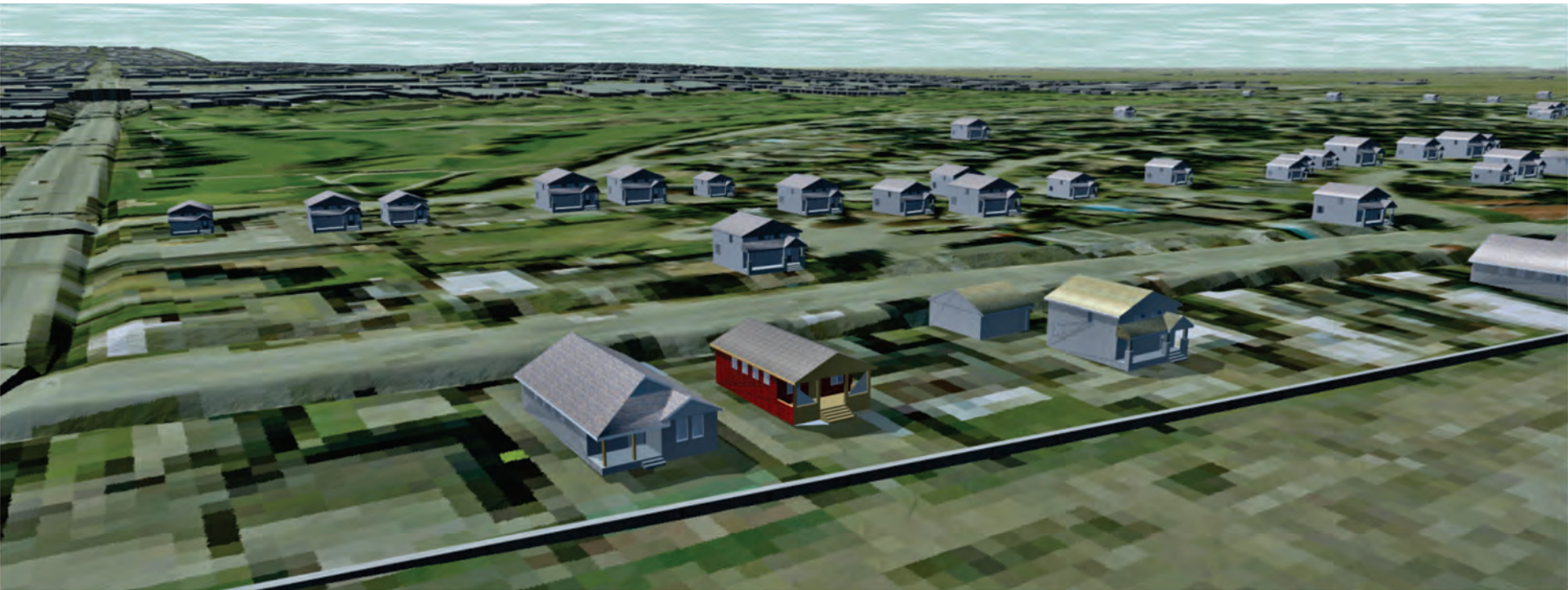


1.2 m Sea Level Rise, Year ~2100

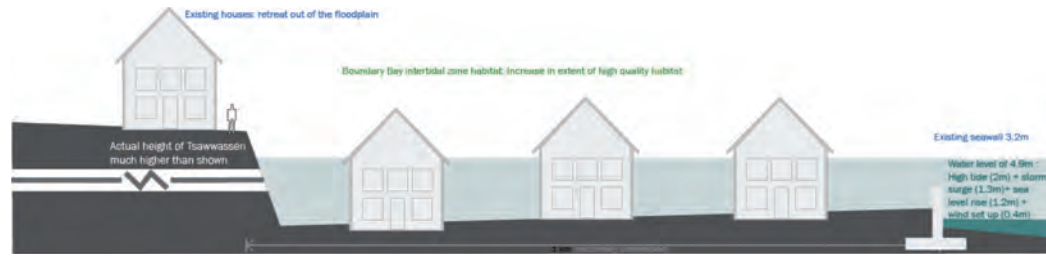
Managed Retreat



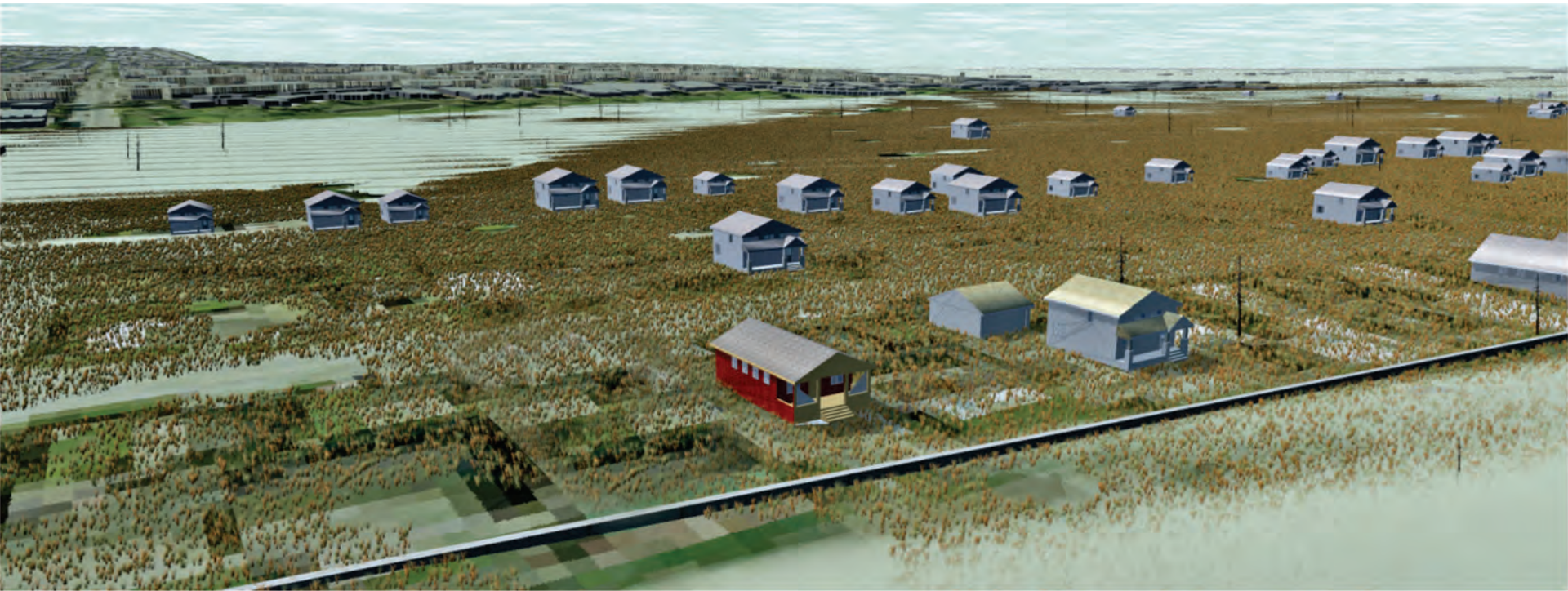
Managed Retreat



Managed Retreat



Managed Retreat



An aerial photograph showing a vast expanse of flooded land. In the foreground, a small, single-story red building with a grey roof and blue trim stands isolated in the water. The surrounding area is covered in dense, brownish-green vegetation that is partially submerged. A thin, straight line, possibly a road or a railway track, runs diagonally across the lower portion of the image. In the background, a coastal town with numerous buildings is visible, situated along the edge of the flooded area. The sky is overcast and grey.

1.2 m Sea Level Rise, Year ~2100

Build Up

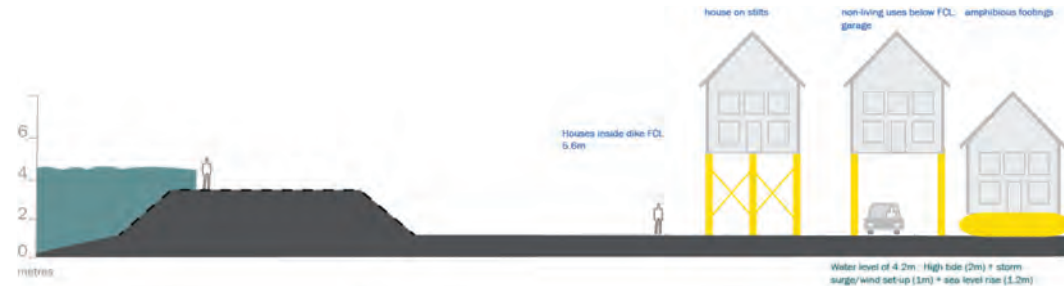


Ladner Dike View

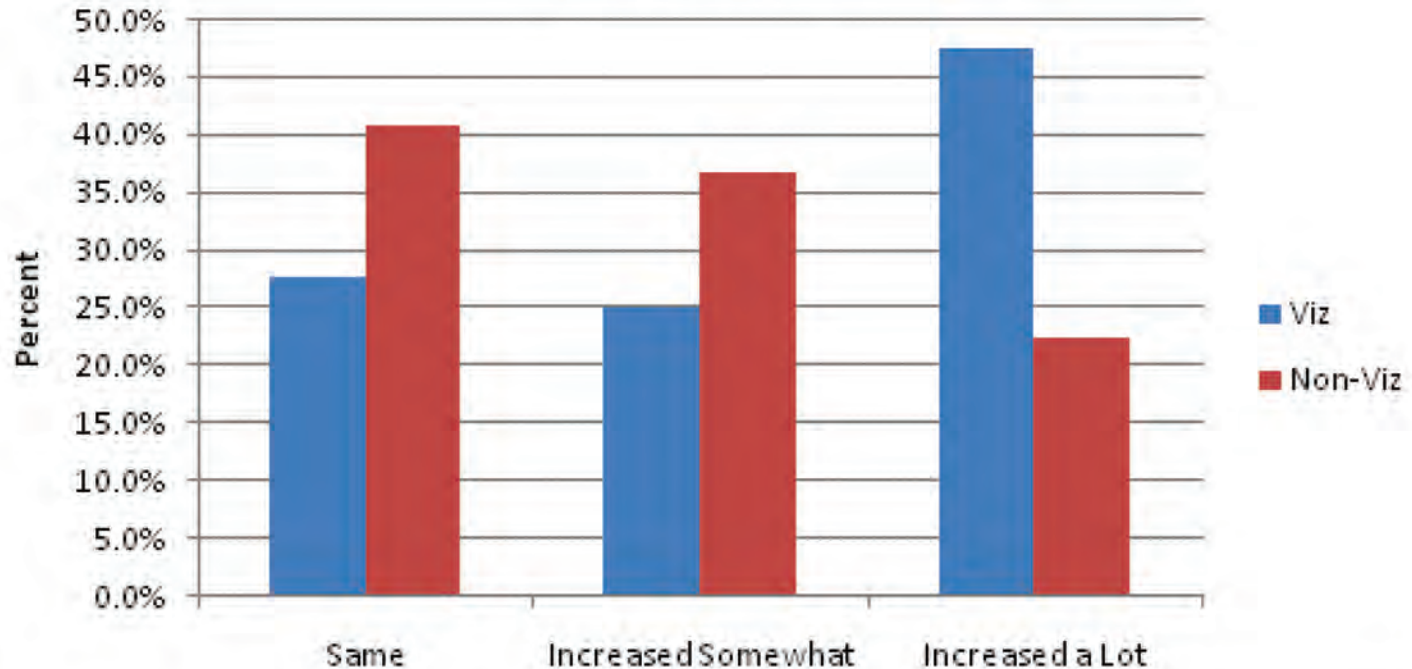


1.2 m Sea Level Rise, Year ~2100

Build Up



Change in willingness to support local mitigation



"I learned how climate change could affect my community in a very graphic way. Numbers may not stay with me but visuals will"

Thank you

For more information:

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www.calp.forestry.ubc.ca



@dpiterritorial